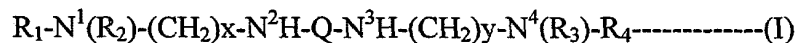


ABSTRACT

Anti-diarrheal and /or gastrointestinal anti-spasmodic pharmaceutical compositions containing [A] a polyamine of the formula:



wherein: R_1 , R_2 , R_3 and R_4 may be the same or different and are H, alkyl, cycloalkyl or aralkyl having from 1 to 12 carbon atoms, or a heterocyclic group having from 3 to 10 atoms wherein the hetero atom is said N^1 or N^4 ;

Q is a cycloalkyl group having from 3 to 10 carbon atoms;

x is an integer from 3 to 6, inclusive;

and y is an integer from 3 to 6, inclusive;

or (II) a salt thereof with a pharmaceutically acceptable acid; and [B] a pharmaceutically acceptable carrier therefor as well as methods of treatment utilizing the polyamines are disclosed.